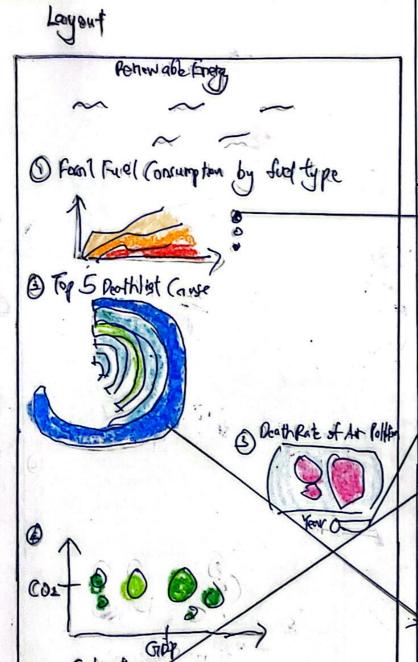


2) It use 2 maps, wouldn't be too complexed 3) How to create a good stroutelling by starting from the to

2. Filter (9) is not suitable as if Fas too many categories 1) is not needed as la) has already shown the same thro (c) is not required and can be replaced by If with a filter that can select the nenemble energy type 3) (atequies Categorical - Country, Name - Renewable Energy Type - Disosse Burden Type - Facil fuel Type Quantitrine Ot Prenorable Energy generator -- CIHI EMPUTON - Foul fuel consump then Country Name = Charopleth Map Rorchable Energy Type + Stacked Area Usese Bunkhs Radial Bar Chart Fosil fuel Type + Strangaph Gilly Emissions Pic chart protony, flows Sankey Chart 4) Combre and Refine old) and 11) are redundant in somehow as (i) already shown · Use charaptoth map to show the global energy share · Use sankey chart to show engry - Use radial bar chart to show to 1 5 rue factor



Focus :

O Stacked Area Charts x-axx with years, y-axis with the amount of fuel type's use

- Color Hue is used
- Legende are clickable
- @ Rodal Bar Chart: shows the amount of death by top 5 ruk factor,
  - When hoverly it, colour will change, indicated this is currently selecting
- (a) Choroploth Map: (alor Luminance is used to show the dorsity of cloth rate
  - Additional annotations to point out the interesting part

Title: Renerable Energy
Author: Law Hang Streng
Date: 7/13/2024
Sheet: 2
Tark: Design Visualization for Renerable

Operators:

- O Logends are clickable, and went can focus on a specific region by clicking the legend
- (2) Year Stider allows when to filter the data distribution by year 150 mer can see the changes over three years
- 3 A continent filter albus wer to select the continent that they want to look at, this can help user to focus the Late distribution easily
- (A) When hovering the bas, the moor of the bass will be charged, indicating the bar is currently viewing by user

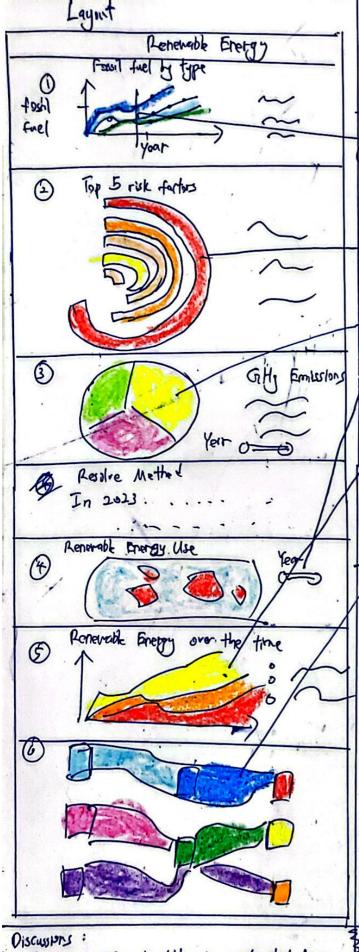
Openipy .

Advantages &

- · User Interactions are from Lly
- The flow of this storytelling is well, clear and easy-to-read
- · Color relection is good

Diradvantages >

- . Ton less chart, cannot show the whole concept of thir tepic
- · No signtfines and Layout
- · Spacing is too large, can be improved



Author: Lieur Hary Shery Dat = 7/10/2024 Sheat : 3 Tauks Create Dota Neualization for Renewable Energy

Linke Lightning mirel

Meitora O OLine chaft with a morable maltan lite i user can know the medica value of the specific time by morny this line

- @ When horess the bar, the colour will change to brighter, showing it is schoting by wer
- 3 Year filter, shows the amount of each gly ovor the years
- O-Year filter, same as above, show the amount of renerable energy us over the years
  - By clicking on a region, other region will be shaded
- B) when selecting on a region, other region will automatically be shaded, showing this ragion is currently selected by user
  - The thicker the link, the lager the amount,

Focus

- ORORO There 3 graphs show the traditional energy source, this is a brief history about how human well to got energy from?
  - Colour thre is used for categories in Of 3), but about luminance is used for (3)
- (f) shows the latest information of renewable energy
  - colour luminance is used
  - interactions with region is allowed

- year slider

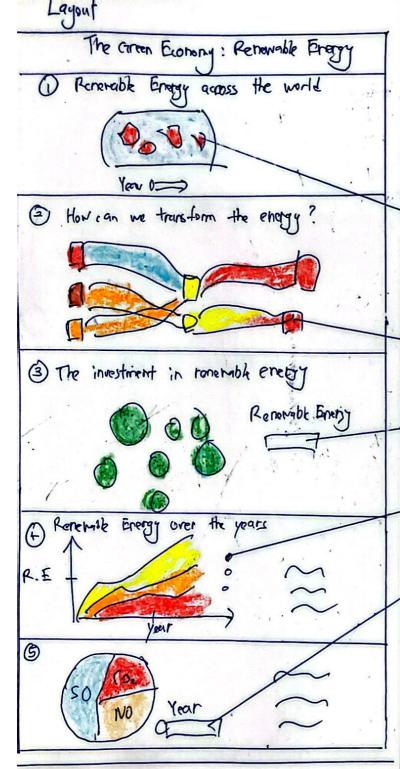
- B shors the info of rerensible energy over the years
  - cobar the is used
  - Region are clickable
- (6) The tital conclusion of revenerable energy, the logar amount has thicker link and bygon note

Advantages 1- The story felling is good, starts from

- Enough number and complexity chart

Dradvantages - Sightline and layout could be further improved

> - Loot diagram (sankey chart) wight need further explanation as not everyone knows



Dicemba

Advantages:

O The number of graphs is enough

3 Some graphs have short description, which can increase as the level of understanding for user

3 Each graph has interactions to play with

O's advantages :

O Graphs might be too simple?

(2) It the ple chart has too much categories) is it okay?

(3) Will the sankey chart be efficient to show the tow?

Title: (he Green Eronomy: Merelwable bringy
Author: Leaw Hary shong
Pate: 7/10/2024
Sheet: 4
Tarks Create Data Visualization for Renerable
Energy

Operations:

> Regions are clickable, when user click on a ragion, other ragions will be chaded,

- Tottip Country Irane P.E. share(%)

The node and link are both clickblb, when user honor it, the colour will change, indicating this is currently selecting by user A filter allows user to select the r-C

A filter allows user to select the r-C type of investment

Legends are clickable, and when wer clicked it, other regions will be shaded Year sliker allows user to fitter the dots

Focus :

OThe choropath map is used to give an overvious of this topic, so it put at the first

1) The sankey diagram shows the flow of energy

- Can put retrent iron?

- The dataset is enough to crooke this?

@ Each country represent a bubble in the bubble chart, the larger the insertment, the larger the circle

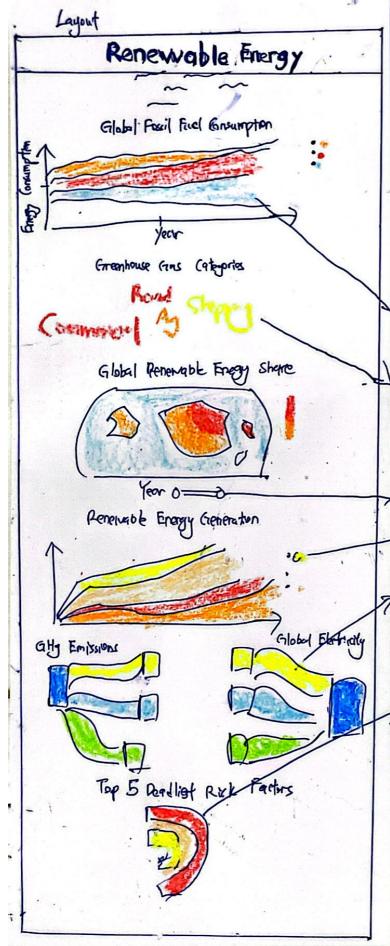
- when wer click on a bubble, a tooltop

Invitate will show

(4) This stacked area charif shows the changes of renewable energy over these years

- x-axi is year, y-axi is the amount

- colour thre is used



Petails

Algorithms = - Use R to filter data and aggregate

common attributes

Estimated Time = 3 days for data collected

5 days for data collected

Title Firm Dough Sheet Author: Liaw Hang shong Dak: 12/10/2024 cheet = 5

Tek: Final Vinelization Dushboard

Operation

(1) One clear, by and bold title to capture the first attention of user, with a short paragraph describe the topic and what this ricualization

@ Subheading for each graph should mut lagor than the main fitle, but also need to be enough size and suitable font type

(3) The regions are clickable, and once clicked, other region will be staded

(1) The word are clickable, and once clicked, the selected word will be enlarged, and

Percenting will be shown

29 Year slider can be used to filter the data

126) legends are clickedly and once clicked offer

@ sankey chart are clickedb, and one chek

Type = vill be shown

Bars are however clickable and one click, colour will changed to light yellow



Focus .

Forsi on the color channel used, the overall theme of this visualization, the startelling, the flow of each graph. Each graph should have a similar theme, and the interactions should be worked in quickly and user-friendly. Also, annotations are required in characterist map. Furthermore, can add a short paragraph for each graph, to let